

Application Serial No. 10/538,426  
Reply to Office Action of July 9, 2008

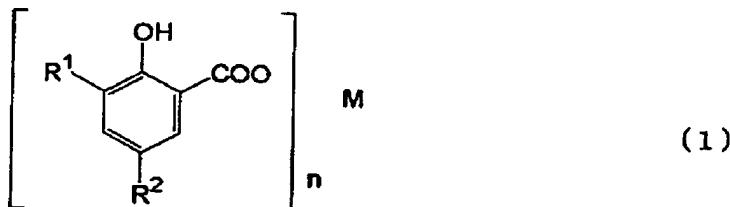
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PATENT  
Docket: CU-4247Amendments to the Claims

The listing of claims presented below replaces all prior versions, and listings, of claims in the application.

Listing of claims:

1. (Currently amended) A lubricating oil additive obtained by incorporating, into a lubricant base oil, (A) a salicylate detergent and (B) a metal detergent other than any salicylate detergent, wherein the salicylate detergent (A) is a (per) basic salt of an alkali metal or alkaline earth metal salicylate represented by the general formula (1) and/or a (per) basic salt thereof:



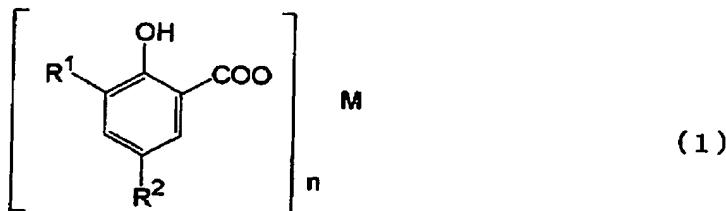
wherein one of  $\text{R}^1$  and  $\text{R}^2$  in the general formula (1) is a hydrocarbon which has 10 to 40 carbon atoms, and the other is a hydrocarbon which has less than 10 carbon atoms, the hydrocarbon group may contain oxygen or nitrogen, M represents an alkali metal or alkaline earth metal, and n is 1 or 2 in accordance with the valence of the metal.

2. (Cancelled)

3. (Currently amended) A lubricating oil additive obtained by incorporating, into a lubricant base oil, (A) a salicylate detergent and (B) a metal detergent other than any salicylate detergent, wherein the salicylate detergent (A) is a (per) basic salt of an alkali metal or alkaline earth metal salicylate represented by the general formula (1):

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wherein R<sup>1</sup> and R<sup>2</sup> in the general formula (1) are each a hydrocarbon group having 10 to 40 carbon atoms, M represents an alkali metal or alkaline earth metal, and n is 1 or 2 in accordance with the valence of the metal.

4. (Previously presented) The lubricating oil additive according to claim 1, wherein the component (A), has a metal ratio of 1.1 or more.

5. (Previously presented) The lubricating oil additive according to claim 1, wherein the metal detergent (B) other than any salicylate detergent is at least one selected from alkali metal or alkaline earth metal sulfonates and (per) basic salts thereof.

6. (Previously presented) The lubricating oil additive according to claim 1, which further comprises at least one selected from (C) an anti-wear agent, (D) an ashless dispersing agent, and (E) an antioxidant.

7. (Previously presented) A lubricating oil composition, into which the lubricating oil additive according to claim 1 is incorporated.

8. (Previously presented) A method for improving the storage stability of a lubricating oil composition comprising a step of preparing a lubricant oil composition by incorporating, into a lubricating base oil, the lubricating oil additive described in the claim 1.

9. (Previously presented) The lubricating oil additive according to claim 1, wherein one of R<sup>1</sup> and R<sup>2</sup> in the general formula (1) is a hydrocarbon which has 10 to 40 carbon atoms, and the other is a hydrocarbon which has less than 5 carbon

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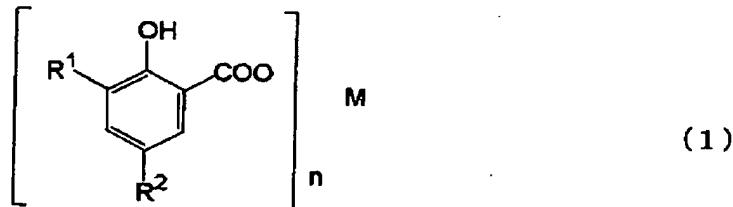
atoms (and may have oxygen or nitrogen).

10. (Previously presented) A lubricating oil composition, into which the lubricating oil additive described in claim 6 is incorporated.

11. (Previously presented) A method for improving the storage stability of a lubricating oil composition comprising a step of preparing a lubricant oil composition by incorporating, into a lubricating base oil, the lubricating oil additive described in the claim 6.

12. (Previously presented) The lubricating oil additive according to claim 1, wherein the component (A) has a metal ratio of 2.3 or more and 6 or less, and component (B) is at least one selected from alkali metal or alkaline earth metal sulfonates and (per) basic salts thereof which has a metal ratio of 1 or more and 20 or less.

13. (Currently amended) A lubricating oil composition, into which a lubricating oil additive is incorporated, wherein the lubricating oil additive comprises:  
 (A) a (per) basic salt of an alkali metal or alkaline earth metal salicylate represented by the general formula (1) and/or a (per) basic salt thereof:



wherein one R<sup>1</sup> and R<sup>2</sup> in the general formula (1) is a hydrocarbon which has 10 to 40 carbon atoms, and the other is a hydrocarbon which has less than 10 carbon atoms, the hydrocarbon group may contain oxygen or nitrogen, M represents an alkali metal or alkaline earth metal, and n is 1 or 2 in accordance with the valence of the metal;

(B) at least one selected from alkali metal or alkaline earth metal sulfonates and

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(per) basic salts thereof;

(C) an anti-wear agent which is at least one selected from sulfur-containing compounds and phosphorus containing compounds;

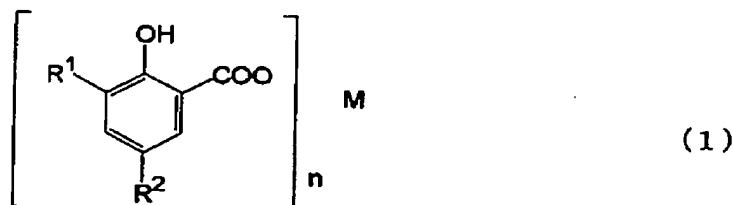
(D) an ashless dispersing agent which is at least one selected from succinimide ashless dispersing agents, benzylamine ashless dispersing agents, polybutenylamine ashless dispersing agents, and compounds obtained by modifying these compounds with a boron compound, a oxygen-containing compound, a phosphorus compound, a sulfur compound;

(E) an antioxidant which is at least one selected from phenol type antioxidants and amine type antioxidants.

14. (New) The lubricating oil additive according to claim 1, wherein one of R<sup>1</sup> and R<sup>2</sup> in the general formula (1) is a hydrocarbon which has 14 to 18 carbon atoms, and the other is a methyl group.

15. (New) The lubricating oil additive according to claim 1, wherein R<sup>1</sup> and R<sup>2</sup> in the general formula (1) are each a hydrocarbon which has 14 to 18 carbon atoms.

16. (New) A lubricating oil composition, into which a lubricating oil additive is incorporated, wherein the lubricating oil additive comprises: (A) a (per) basic salt of an alkali metal or alkaline earth metal salicylate represented by the general formula (1):



wherein R<sup>1</sup> and R<sup>2</sup> in the general formula (1) are each a hydrocarbon group having 10 to 40 carbon atoms, M represents an alkali metal or alkaline earth metal, and n is 1 or 2 in accordance with the valence of the metal;

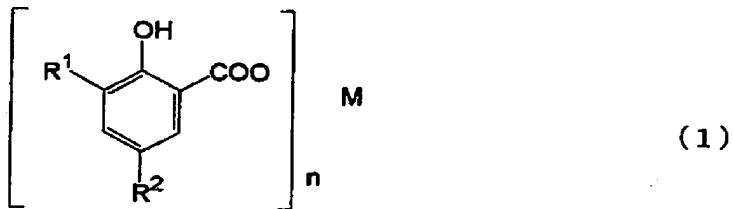
(B) at least one selected from alkali metal or alkaline earth metal sulfonates and (per) basic salts thereof;

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- (C) an anti-wear agent which is at least one selected from sulfur-containing compounds and phosphorus containing compounds;
- (D) an ashless dispersing agent which is at least one selected from succinimide ashless dispersing agents, benzylamine ashless dispersing agents, polybutenylamine ashless dispersing agents, and compounds obtained by modifying these compounds with a boron compound, a oxygen-containing compound, a phosphorus compound, a sulfur compound;
- (E) an antioxidant which is at least one selected from phenol type antioxidants and amine type antioxidants.

17. (New) A lubricating oil composition, into which a lubrication oil additive is incorporated, wherein the lubricating oil additive comprises: (A) a (per) basic salt of an alkali metal or alkaline earth metal salicylate represented by the general formula (1):



wherein one of  $\text{R}^1$  and  $\text{R}^2$  in the general formula (1) is a hydrocarbon which has 14 to 18 carbon atoms, and the other is a methyl group, M represents an alkali metal or alkaline earth metal, and n is 1 or 2 in accordance with the valence of the metal;

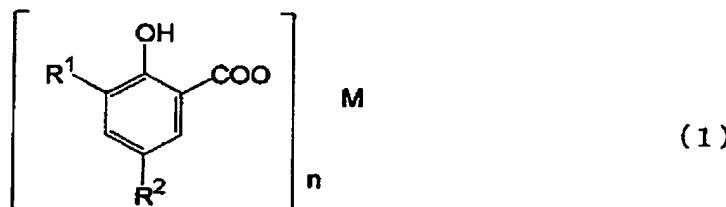
- (B) at least one selected from alkali metal or alkaline earth metal sulfonates and (per basic salts thereof;
- (C) an anti-wear agent which is at least one selected from sulfur-containing compounds and phosphorus containing compounds;
- (D) an ashless dispersing agent which is at least one selected from succinimide ashless dispersing agents, benzylamine ashless dispersing agents, polybutenylamine ashless dispersing agents, and compounds obtained by modifying these compounds with a boron compound, a oxygen-containing compound, a phosphorus compound, a sulfur compound;
- (E) an antioxidant which is at least one selected from phenol type antioxidants and

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amine type antioxidants.

18. (New) A lubricating oil composition, into which a lubricating oil additive is incorporated, wherein the lubricating oil additive comprises: (A) a (per) basic salt of an alkali metal or alkaline earth metal salicylate represented by the general formula (1):



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wherein R<sup>1</sup> and R<sup>2</sup> in the general formula (1) are each a hydrocarbon which has 14 to 18 carbon atoms, M represents an alkali metal or alkaline earth metal and n is 1 or 2 in accordance with the valence of the metal:

- (B) at least one selected from alkali metal or alkaline earth metal sulfonates and (per) basic salts thereof;
- (C) an anti-wear agent which is at least one selected from sulfur-containing compounds and phosphorus containing compounds;
- (D) an ashless dispersing agent which is at least one selected from succinimide ashless dispersing agents, benzylamine ashless dispersing agents, polybutenylamine ashless dispersing agents, and compound obtained by modifying these compounds with a boron compound, a oxygen-containing compound, a phosphorus compound , a sulfur compound;
- (E) an antioxidant which is at least one selected from phenol type antioxidants and amine type antioxidants.